## **Set The Stage - A Brief "personal" MACRO Viewpoint**

#### Most Powerful Economic Leaders

- Lowest common denominator (driven by Greed and Avarice)
- Read William Butler Yeats "Second Coming"

#### Legislators

- Pathetically sold out to economic powers Minnie Pearl
- Not leading, rather brokering the American economy on behalf of most powerful investors

#Energy Sector driven by "Sunk Investment" in worst technologies

## **2009 Stanford Study**

**#**Energy systems ranked by impact on: ☐Global Climate Change Pollution ✓Water Supply Land Use Public Health & Safety Potential over-all economic benefit



**#Wind #**Solar **#**Geothermal Image: Planetary tectonic heat **#**Tidal **Hydroelectric** 

## **Poor Options**

**%** Nuclear

 ONLY viable if risk is socialized (see sold out legislators above)

#### **#** Coal with Carbon Capture

- Requires additional energy to capture carbon
- No such thing as "clean dirt"... Combustion = Carbon

HOil 🖁

- Inherently inefficient as a transportation fuel
- Incomplete combustion
- Less than 20% of potential energy transferred to motion
- Military subsidy alone is stupendous

**#** Natural Gas

- A good "transition" fuel for transportation
- Resource wasted on combustion



November 2009 Scientific American Magazine Article - "A Path to Sustainable Energy"

₩We CAN be free of combustion fuel by 2030 -

Employ every able-bodied human on Earth
 Generate Global Economic Prosperity
 Stop Human Induced Climate Change



**#**Energy Efficiency **#Wind Solar PV #**Solar Thermal **#**Tidal **#**Geothermal **Hydroelectric** 



# **Need All Learning Options**

Community College System
Important and essential, degree based, multi-semester, professional level

### **#Adult Education**

Short-term, quick response, boots on the ground basic training

○Contractor and worker development

### **Home Performance Contractors**



#### **#**Energy Auditor

Should be the sales arm of a Home Performance Contracting Business

≥ Private consultant model has not generated energy savings

#### **Home Performance Contractor**

HVAC
Insulation
Air Sealing
Alternative Energy
Xeriscaping
Water Management
And More...

# EETCKC Energy Tech Course

- Multi- Week
- Basic Construction Skills
  - Tools and Techniques
  - Hands-On
- Fundamentals of Electricity
- Fundamentals of Plumbing
- Intro to Business Management



**Energy and Environmental Training Center of Kansas City** 

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